

List of Figures

Figure ES-1.	The Six Activity Areas	Executive Summary-1
Figure ES-2.	Measuring Military Worth	Executive Summary-2
Figure 1-1.	EW Program Setbacks	1-2
Figure 1-2.	The Threat to EW	1-3
Figure 2-1.	The Voice of the Warfighter.....	2-3
Figure 2-2.	Integrated Teams	2-4
Figure 2-3.	The Military Worth Pyramid.....	2-6
Figure 2-4.	The Three-Dimensional Trade Space	2-8
Figure 2-5.	Communicating Results.....	2-10
Figure 2-6.	DoD 5000 Questions.....	2-13 and 2-14
Figure 2-7.	The Lightning Bolt Initiatives	2-15
Figure 2-8.	Core Competencies Table.....	2-16
Figure 3-1.	The Voice of the Warfighter.....	3-4
Figure 3-2.	Our New Relationship	3-6
Figure 3-3.	Core Competencies Table.....	3-6
Figure 4-1.	The Three Factors of Military Worth.....	4-3
Figure 4-2.	The Requirements Trade Space	4-5
Figure 4-3.	Warfighter Need Versus Reduction in Lethality...	4-6
Figure 4-4.	The Military Worth Framework.....	4-9
Figure 4-5.	Warfighter Involvement in Mission Planning.....	4-11
Figure 4-6.	Threats and Targets.....	4-15
Figure 4-7.	Tactics and Materiel Solutions.....	4-16
Figure 4-8.	A Geometric View of Threats.....	4-17
Figure 4-9.	Offset Range	4-21
Figure 4-10.	Offset Reduction	4-21
Figure 4-11.	P _k Versus Range.....	4-22
Figure 4-12.	RiO Due to EW Solution.....	4-23

Figure 4-13. P_k Grids	4-25
Figure 4-14. Flight Paths and P_k Grids	4-26
Figure 4-15. Reduction in P_k	4-27
Figure 4-16. Mission Success Rate.....	4-29
Figure 4-17. Deficiency Table.....	4-30
Figure 4-18. Mission Success Table	4-30
Figure 4-19. Incomplete TAR Trade Space Table	4-31
Figure 4-20. Table of All Solutions	4-32
Figure 4-21. Sorted Table of All Solutions.....	4-33
Figure 4-22. Completed Trade Space Table	4-33
Figure 4-23. Relationship Among Military Worth Tools.....	4-36
Figure 4-24. Comparison of the RiO of Different EW Solutions	4-45
Figure 4-25. The Future of Military Worth.....	4-48 through 4-50
Figure II-1. Mapping the Activity Chapters Onto the DoD 5000 Process Part Two Overview-2	
Figure II-2. Understanding How Acquisition Tasks Change by Phase.....	Part Two Overview-3
Figure 5-1. Quantifying Mission Deficiencies Process Flow....	5-1
Figure 5-2. Threat Vulnerabilities and Accessibilities.....	5-14
Figure 5-3. Defense Planning Guidance.....	5-21
Figure 5-4. Threat Scenario	5-23
Figure 5-5. OPLAN Information.....	5-24
Figure 5-6. OPLAN	5-25
Figure 5-7. ATO Information.....	5-26
Figure 5-8. ATO	5-27
Figure 5-9. Mission Plan	5-28
Figure 5-10. Effectiveness of F-19 Aircraft in SWA 2010 Scenario	5-30
Figure 5-11. Unsuccessful Mission.....	5-31
Figure 5-12. Deficiencies by Threat.....	5-32

Figure 5-13.	Mission Success Table.....	5-33
Figure 5-14.	Required Offset Reduction	5-34
Figure 5-15.	Offset Reduction Trade Space Table	5-35
Figure 6-1.	Establishing Requirements Process Flow	6-1
Figure 6-2.	Narrowing the Deficiency	6-13
Figure 6-3.	Offset Reduction Trade Space Table	6-14
Figure 6-4.	Potential Solutions Table.....	6-19
Figure 6-5.	Vertical AoA.....	6-21
Figure 6-6.	Vertical AoA with Threshold and Objective.....	6-23
Figure 6-7.	Offset Reduction Trade Space Table (with Threshold and Objective).....	6-25
Figure 7-1.	Convey Requirements Process Flow	7-1
Figure 7-2.	Conveying Requirements by DoD 5000 Phase	7-5
Figure 7-3.	Three-Dimensional Trade Space.....	7-9
Figure 7-4.	Emphasis on Commodity Solutions	7-11
Figure 7-5.	Addressing Integration Issues.....	7-12
Figure 8-1.	Source Selection Process Flow.....	8-1
Figure 8-2.	Source Selection by DoD 5000 Phase.....	8-3
Figure 8-3.	Linking System Characteristics to Military Worth	8-8
Figure 8-4.	Technological Maturity Versus Risk.....	8-12
Figure 8-5.	Comparing Solutions to the Threshold and Objective.....	8-14
Figure 8-6.	Filtering Proposals.....	8-16
Figure 9-1.	Converging on the Optimal Solution.....	9-1
Figure 9-2.	Converging on Optimal Specifications	9-2
Figure 9-3.	Solution Development by DoD 5000 Phase	9-3 and 9-4
Figure 9-4.	Functional Analysis	9-8
Figure 9-5.	Validating the Links in the Military Worth Pyramid.....	9-10
Figure 9-6.	Notional Requirements Correlation Matrix	9-11

Figure 9-7. Technical Performance Management.....	9-12
Figure 9-8. Insight Plan.....	9-18
Figure 9-9. Common Databases	9-19
Figure 9-10. Commodity Solutions	9-20
Figure 10-1. Evaluate the Result Process Flow	10-1
Figure 10-2. EW and Airspace Bought Back.....	10-2
Figure 10-3. DoD 5000 Phases	10-3 and 10-4
Figure 10-4. Using Test Results Within the Military Worth Framework.	10-6
Figure 10-5. Relationship Between Modeling and Simulation Tools and the Test and Evaluation Process	10-7
Figure 10-6. EW Test Process	10-10
Figure 10-7. Correlation Between Models and Types of Tests	10-16

